	Application No.	Applicant(s)
Notice of Allowability	09/973,822	MORIMOTO ET AL.
	Examin r	Art Unit
	Ishwar (I. B.) Patel	2827
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is selected and MPEP 1308.	this application. If not included inication will be mailed in due course. THIS
<ol> <li>This communication is responsive to the response filed on</li> <li>The allowed claim(s) is/are 7.</li> <li>The drawings filed on 24 October 2002 are accepted by th</li> <li>Acknowledgment is made of a claim for foreign priority und</li> <li>All b) Some* c) None of the:</li> </ol>	e Examiner. der 35 U.S.C. § 119(a)-(d) o	· (f).
<ol> <li>Certified copies of the priority documents have been received.</li> <li>Certified copies of the priority documents have been received in Application No</li> </ol>		
<ol> <li>Copies of the certified copies of the priority do         International Bureau (PCT Rule 17.2(a)).         * Certified copies not received:     </li> </ol>	cuments have been received	d in this national stage application from the
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
(a) The translation of the foreign language provisional application has been received.		
6. Acknowledgment is made of a claim for domestic priority u	nder 35 U.S.C. §§ 120 and/o	or 121.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of 7.   A SUBSTITUTE OATH OR DECLARATION must be submits INFORMAL PATENT APPLICATION (PTO-152) which gives reas 8.   CORRECTED DRAWINGS must be submitted.	this application. THIS THR nitted. Note the attached EX.	EE-MONTH PERIOD IS NOT EXTENDABLE  AMINER'S AMENDMENT or NOTICE OF
<ul><li>(a) ☐ including changes required by the Notice of Draftsper</li><li>1) ☐ hereto or 2) ☐ to Paper No</li></ul>	son's Patent Drawing Revie	w ( PTO-948) attached
(b) including changes required by the proposed drawing correction filed, which has been approved by the Examiner.		
(c) 🔲 including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No		
Identifying indicia such as the application number (see 37 CFR 1 each sheet.	.84(c)) should be written on th	ne drawings in the front (not the back) of
9. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT FOR T	sit of BIOLOGICAL MATE HE DEPOSIT OF BIOLOGI	ERIAL must be submitted. Note the CAL MATERIAL.
Attachment(s)		
1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☐ Information Disclosure Statements (PTO-1449), Paper No 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	<b>4⊠</b> Interviev 6⊠ Examine	f Informal Patent Application (PTO-152) v Summary (PTO-413), Paper No vr's Amendment/Comment r's Statement of Reasons for Allowance .

## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ellen Marcie Emas (Reg. 32,131) on September 2, 2003.

The application has been amended as follows:

(I) In claim 7,

add - - in the direction perpendicular to the outer edge of the component corresponding region - -, after "pad electrode", line 9,

add - - the width of each of the substrate side pad electrodes smaller than that of the corresponding component side pad electrodes - -, after "pad electrode", line 10, and add - - towards the periphery of the component corresponding region - -, after "off-set", line 14.

- (II) Cancel claims 1-6 and 8.
- 2. The following is an examiner's statement of reasons for allowance:

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A connection structure between a substrate and a component, having, pad electrodes formed on the surface of a substrate and arranged inside a component corresponding region, component corresponding region, as described and enabled by the disclosure is a the peripheral boundary defining the region where the component is arranged, as shown in figure 1A, connected to solder bumps formed on corresponding pad electrodes formed on the component, wherein the length of each of the substrate side pad electrodes in the direction perpendicular to the outer edge of the component corresponding region is larger than that of the corresponding component side pad electrodes, the width of each of the substrate side pad electrodes is smaller than that of the corresponding component side pad electrodes and the center of the solder bump arranged off set towards the periphery of the component corresponding region from the center of the substrate pad, has not been disclosed by prior art alone or in combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ishwar (I. B.) Patel whose telephone number is (703) 305 2617. The examiner can normally be reached on M-F (8:30 - 5).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kamand Cuneo can be reached on (703) 308 1233. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305 3900.

ibp 9/3/03

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800